

## REPLACEMENT SHEET

Imp-FAM18	LARLFSCLKPLVLALGFCFETHCAAADAVAAEETDNPTAGGSVRSVSEPIQPTSLSLGSTC	60
NMB0280	LARLFSCLKPLVLALGFCFETHCAAADAVAAEETDNPTAGGSVRSVSEPIQPTSLSLGSTC	60
NMA2207	MARLFSCLKPLVLALGFCFETHCAAADAVAAEETDNPTAGGSVRSVSEPIQPTSLSLGSTC : *****	60
Imp-FAM18	LFCSNESGSPERTEAAVQSGEASIPEDYTRIVADKVEGQSQVQVRAEGNVVVERNRRTL	120
NMB0280	LFCSNESGSPERTEAAVQSGEASIPEDYTRIVADKVEGQSQVQVRAEGNVVVERNRRTL	120
NMA2207	LFCSNESGSPERTEAAVQSGEASIPEDYTRIVADKVEGQSQVQVRAEGNVVVERNRRTL *****	120
Imp-FAM18	NTDWADYDQSGDVTAGDRFALQQDGTLLIRGETLTYNLEQQTGEAHNVRMETEHGGRRLQ	180
NMB0280	NTDWADYDQSGDVTAGDRFALQQDGTLLIRGETLTYNLEQQTGEAHNVRMETEHGGRRLQ	180
NMA2207	NADWADYDQSGDVTAGDRFALQQDGTLLIRGETLTYNLEQQTGEAHNVRMETEHGGRRLQ *: *****	180
Imp-FAM18	SVSRTAEMLGEGHYKLTETQFNTCSAGDAGWYVKAASVEADREKIGIVAKHAAFFVGGVP	240
NMB0280	SVSRTAEMLGEGHYKLTETQFNTCSAGDAGWYVKAASVEADREKIGIVAKHAAFFVGGVP	240
NMA2207	SVSRTAEMLGEGHYKLTETQFNTCSAGDAGWYVKAASVEADREKIGIVAKHAAFFVGGVP *****	240
Imp-FAM18	IFYTPWADFPLDGNRKSGLLVPSLSAGSDGVSLSPYYFNLAPNLDAFAPSIVIGERGAV	300
NMB0280	IFYTPWADFPLDGNRKSGLLVPSLSAGSDGVSLSPYYFNLAPNLDAFAPSIVIGERGAV	300
NMA2207	IFYTPWADFPLDGNRKSGLLVPSLSAGSDGVSLSPYYFNLAPNLDAFAPGIVIGERGAV *****	300
Imp-FAM18	FDGQVRYLRDPYAGQSDLTWLPDHDKSGRNNRYQAKWQHRHDSITLQAGVDFNQVSDSG	360
NMB0280	FDGQVRYLRDPYAGQSDLTWLPDHDKSGRNNRYQAKWQHRHDSITLQAGVDFNQVSDSG	360
NMA2207	FDGQVRYLRDPYAGQSDLTWLPDHDKSGRNNRYQAKWQHRHDSITLQAGVDFNQVSDSG *****	360
Imp-FAM18	YYRDFYGNKEIAGNVNLNRRVWLDYGGRAAGGSLNAGLSVLKYQTLANQSGYKDKPYALM	420
NMB0280	YYRDFYGNKEIAGNVNLNRRVWLDYGGRAAGGSLNAGLSVLKYQTLANQSGYKDKPYALM	420
NMA2207	YYRDFYGNKEIAGNVNLNRRVWLDYGGRAAGGSLNAGLSVLKYQTLANQSGYKDKPYALM *****	420
Imp-FAM18	PRLSADWRKNTGRAQIGVSAQFTRFSDSRQDGSRLVVYPDIKWDFNSWSGWYVRPKLGLH	480
NMB0280	PRLSADWRKNTGRAQIGVSAQFTRFSDSRQDGSRLVVYPDIKWDFNSWSGWYVRPKLGLH	480
NMA2207	PRLSADWRKNTGRAQIGVSAQFTRFSDSRQDGSRLVVYPDIKWDFNSWSGWYVRPKLGLH ****: *****	480
Imp-FAM18	ATYYSLNRFGSQEARVSRRTLPIVNIDSGATFERNTRMFGGGVLTQLEPRLFYNYIPAKS	540
NMB0280	ATYYSLNRFGSQEARVSRRTLPIVNIDSGATFERNTRMFGGGVLTQLEPRLFYNYIPAKS	540
NMA2207	ATYYSLNRFGSQEARVSRRTLPIVNIDSGMTFERNTRMFGGGVLTQLEPRLFYNYIPAKS *****	540
Imp-FAM18	QNDLPNFDSSSESSFGYGQLFRENLYYGNDRINTANSLSAVQSRILDGATGEERFRAGIG	600
NMB0280	QNDLPNFDSSSESSFGYGQLFRENLYYGNDRINTANSLSAVQSRILDGATGEERFRAGIG	600
NMA2207	QNDLPNFDSSSESSFGYGQLFRENLYYGNDRINTANSLSAVQSRILDGATGEERFRAGIG *****	600
Imp-FAM18	QKFYFKDDAVMLDGSVGKKPRNRSDWVAFASGSIGSRFILDSSIHYNQNDKRAENYAVGA	660
NMB0280	QKFYFKDDAVMLDGSVGKKPRNRSDWVAFASGSIGSRFILDSSIHYNQNDKRAENYAVGA	660
NMA2207	QKFYFKDDAVMLDGSVGKKPRNRSDWVAFASSGIGSRFILDSSIHYNQNDKRAENYAVGA *****	660
Imp-FAM18	SYRPAQGKVLNARYKYGRNEKIYLSKSGSYFYDKLSQLDLSAQWPLTRNL SAVVRYNYGF	720
NMB0280	SYRPAQGKVLNARYKYGRNEKIYLSKSGSYFYDKLSQLDLSAQWPLTRNL SAVVRYNYGF	720
NMA2207	SYRPAQGKVLNARYKYGRNEKIYLSKSGSYFYDKLSQLDLSAQWPLTRNL SAVVRYNYGF *****	720
Imp-FAM18	EAKKPIEVLGAEYKSSCGCWAGVYAQRVYTGENTYKNAVFFSLQLKDLSSVGRNPADR	780
NMB0280	EAKKPIEVLGAEYKSSCGCWAGVYAQRVYTGENTYKNAVFFSLQLKDLSSVGRNPADR	780
NMA2207	EAKKPIEVLGAEYKSSCGCWAGVYAQRVYTGENTYKNAVFFSLQLKDLSSVGRNPADR *****	780
Imp-FAM18	MDVAVPGYIPAHSLSAGRNRKP 802 (SEQ ID NO: 27)	
NMB0280	MDVAVPGYIPAHSLSAGRNRKP 802 (SEQ ID NO: 28)	
NMA2207	MDVAVPGYIPAHSLSAGRNRKP 802 (SEQ ID NO: 29) *****	

### Figure 8

REPLACEMENT SHEET

**A** (SEQ ID NO: 2)

MIEKLTFFGLFKKEDARSEFMRLMAYVRPYKIRIVAALIAIFGVAATESYLAAFIAPLINHG  
FSAPAAPPELSAAAAGIISTLQNWREQFTYMWVG TENKIWTVPLFLIILVVIRGICRFTST  
YLM TWVSVM TISKIRKDMFAKMLTLSSRYHQETPSGTVLMNMLNLTEQSVSNASDIFTVL  
TRDTMIVTGLTIVLLYLNWQLSLIVVLMFPLLSLLSRYRDR LKHVISDSQKSIGTMNNV  
IAETHQGHRVVKLFNGQAQAANRFDVNRTIVRLSKKITQATAAHS PFSELIASIALAVV  
IFIALWQSQNGYTTIGEFMAFIVAMLQMYAPIKSLANISIPMQTMFLAADGVCAFLDTPP  
EQDKGTLAPQ RVEGRISFRNVDVEYRSDGIKALDNFNLDIRQGERVALVGRSGSGKSTVV  
NLLPRFVEPSAGNICIDGIDIADIKLDCLRAQFALVSQDVFLFDDTLFENVRYSRPDAGE  
AEVLFALQTANLQSLIDSSPLGLHQPIGSNGSNLGGQRQ RVAIARAILKDAPILLLDEA  
TSALDNESERLVQQALERLMENRTGIIVAHRLTTIEGADRIIVMDDGKII EQGTHEQLMS  
QNGYYTMLRNISNKDAAVRTA

**B** (SEQ ID NO: 4)

MLAWRPGRPDGCQAAGGRRYNPGHDCIKASVSLNSAARNAPAGSQPVKAELWKRVYSRVGSYWKGLVLA  
VLLMAGAAATQ  
PTLAVIMKPLDDGFGS GAKPHYVWFLPLAVVGLILLRGICNFFSDYLLAWVANNVLRGIRGEMFERLLG  
LPDADF KR GDT  
GRLLNRFTIDAGNVTGYATDVITVLVRETLVVIALIGVLLYMSWALTIIILVMLPVSVGIARAFTRRLR  
RINRETVNMNA  
ELTRVVSEGIDGQRVIKLF DGYDAERRRFDVNSRLRRFAMRSATADAAL TPLTQVCISVAVGAVIAVA  
LSQANS GALTV  
GSFASFMAALAQIFDPIKRLTNLAGKM QKMLVAAESVFTLV DQTPEADAGTRALPEPV RGKVEFRAVSH  
RFPDADRDTVS  
AVSFLVEPGQTVALVGRSGSGKTTLVNMLPRFVLPDGGDILFDDVPIQDLTLRSLRSHLSLVSQDVVLF  
DDTIAANVGYG  
AGGTVD DARVRDALAAANLLEFVDGLPLGIHTPVGQNAARLSGGQRQLAIARALIKNAPVLILDEATS  
ALDNESERQVQ  
ASLERLMRGRTTLVIAHRLSTVQNADRIIVLDAGKIVEHGPHSELLAANGLYASLYNMQFRED

Figure 14



REPLACEMENT SHEET

(SEQ ID NO: 5)

atgctggcgtggcgccgggtcgccggacgggtgtcaggcgccgggtggccgacgggtacaatcccggg  
cacgattgtat  
taaagcgagtggttccctgaattctgccgcacgcaatgcgcccgccggctcccagccgggtcaaggccga  
actctggaagc  
gggtctacagccgcgtaggctcttactggaaggggctgggtgctggccgctcctgctgatggccggcgccg  
ccgcgacccag  
cccacgctggcagtcacatgaagccgctgctcgacgatggcttctcgggcgccaagccgcattatgtc  
tggttccctgcc  
gctggcggtgggtggggctgatcctgctgcgcggaatctgcaatttcttcagcgactacctgctggcctg  
ggtggccaaca  
acgtgctgcgcggcatccggggcgagatgttcgagcggtgctgggcctgccgatgccgacttcaagc  
gcggcgacacc  
ggccgcctgctcaaccgcttcaccatcgacgcgggcaacgtcaccggctacgccaccgacgtcatcacg  
gtgctggtgcg  
cgaaacctggtcgtcatcgccctgatcggcgtgctgctgtacatgtcgtgggcgctgacgctgatcat  
cctcgtcatgc  
tgccggtgctgggtgggcatcgcccgcccttcacgcgcggctgcgccgcatcaaccgcgaaccgtca  
acatgaacgcc  
gagtcaccgcggtgggtcagcgagggcatcgacgggcagcgtgtcatcaagctgttcgacggctatgac  
gccgagcgccg  
ccgttcgacttcgtcaactcgccctgcgcgcttcgcgatgcgcagcgccaccgccgacgcggcgct  
cacgccgtca  
cgcaggtgtgcatctcggtcgccgtgggcgcgggtcatcgccgtggccctcagccaggccaacagcgggc  
cgctcacgctc  
ggcagcttcgcctcggtcatggccgcgctgggcgagatcttcgatccgatcaagcgccctgaccaacctg  
gccggcaaat  
gcagaaatgctggtggccgcccgaagcgtgttcaccctggtggaccagacgcccaggccgacgcgg  
cacgcgcct  
tgcccgaaccggtgcgcggcaaggtcgaattccgtgcggtcagccatcgcttcccggacgcggatcgcg  
ataccgtcagc  
gccgtgctggttcctggtcgagccggccagaccgtggccctggtcggacgctcgggcagcggaagacc  
actctggtcaa  
catgctgccgcgctttgtcctgccgatggggcgacatcctgttcgacgatgtgccatccaggatct  
caccttgcgca  
gctgcgctcgcatctgtcgtggtcagccaggacgtggtgctgttcgacgacaccattgccgccaacg  
tggttatggc  
gccggcgccacgctcgacgacgcgcgcttcgcgacgcgctggccgcggccaacctgctggagttcgtc  
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ccctgatcaagaacgcgcgggtcctgatcctcgacgagggcgacctcggcgctggacaacgaatccgagc  
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gcacgctggagcggtgatgcgcgggcgcaaccagctggtcatcgccaccggctgtccaccgtgcag  
aacgccgaccg  
catcatcgctggtgacgcggcaagatcgtcgagcacgggcccgcacagcgagctgttgccgccaacgg  
cctgtacgct  
cgctctacaacatgcagttccgcgaggactga

Figure 15 B